



# **City Hall 101**

## **September 27, 2010**

Engineering Services  
(Transportation Portion)



# Traffic Signals



# Traffic Signals

- Traffic Signal Warrant Study
- Traffic Signal Design (3 to 4 months)
- Construction
  - Span Wire Signal (2 to 3 months)
  - Permanent (Poles) Signal (4 to 5 months)



# Traffic Signal Operations

- Signal Operations – 24/7/365
- Daily Maintenance
- Respond to knockdowns and outages







# Traffic Signal Operations





# Traffic Signal Operations



# Traffic Signal Operations

- 2 Signal System Operators
- 78 signalized intersections
- 335 Video Detection Cameras
- 30 PTZ Cameras
- 58 Battery Backup systems
- 117 School Zone Flashers





# Traffic Signal Communications

- Project completed June 2008
- Co-located in Emergency Operations Center
- Remotely control signals
- View video from intersections
- Incident management
- Used during concerts









# Safety in Traffic Signal Design

- Signal Head Visibility
- Red Light Running Countermeasures
  - LED signal heads
  - Traffic signal backplates
  - Supplemental signal heads
  - Yellow Times Meet or exceed minimum standards
  - All Red intervals
- Audible Pedestrian Signals
- Countdown Pedestrian Heads



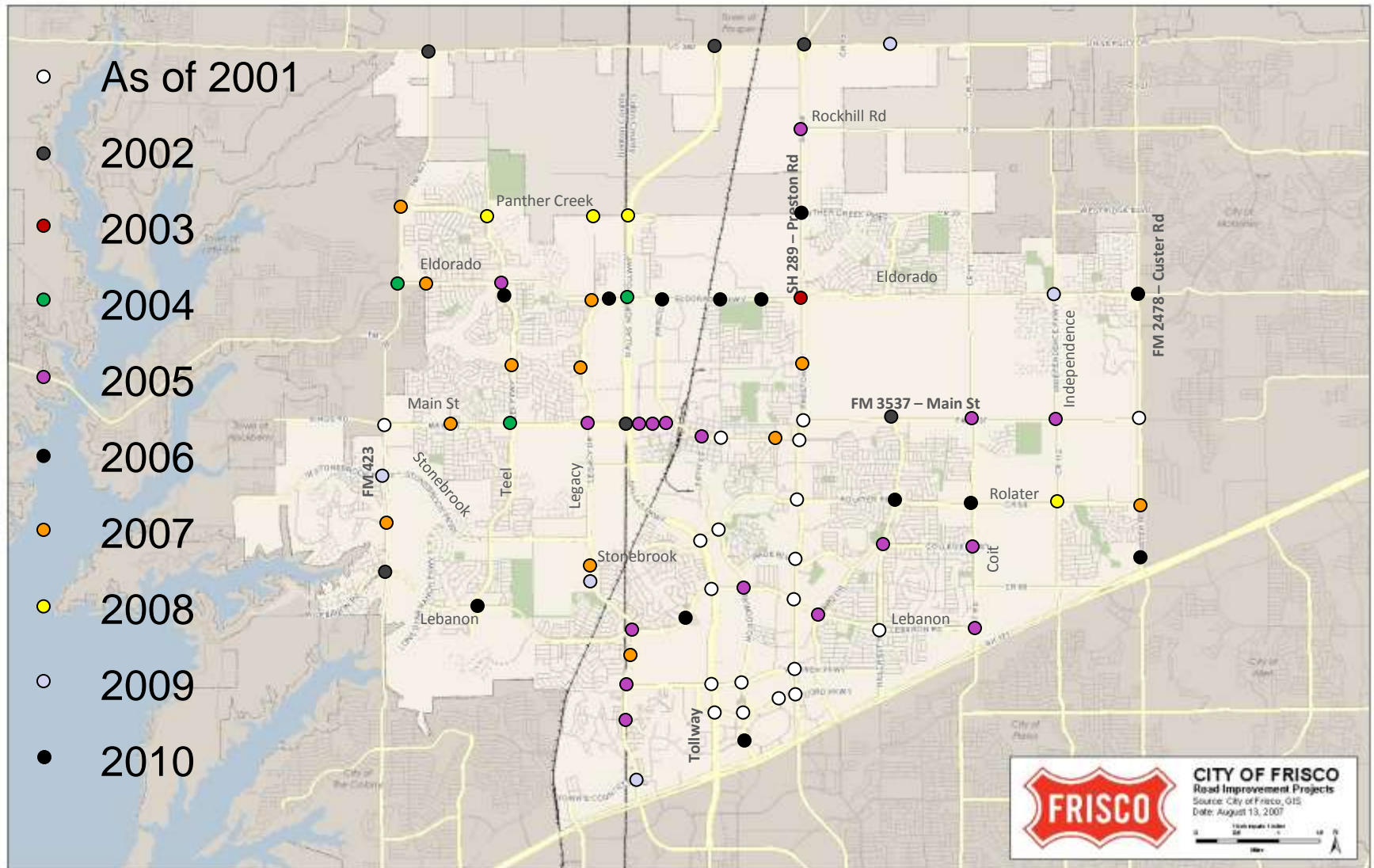
# Traffic Signals





# Traffic Signal Progress

- As of 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010







## **NEW TRAFFIC SIGNALS ACTIVATED**

**Teel at Purefoy, Eldorado at Frisco, Eldorado at North County,  
Eldorado at Rogers, Custer at McKinney Towne Crossing**



# FUTURE TRAFFIC SIGNALS

Eldorado & Target/Market Street

Main & Kyser

Lebanon & Legendary

Lebanon & Starwood

Teel & Stonebrook

Legacy & Stonebrook



# Transportation

## School & Neighborhood Safety





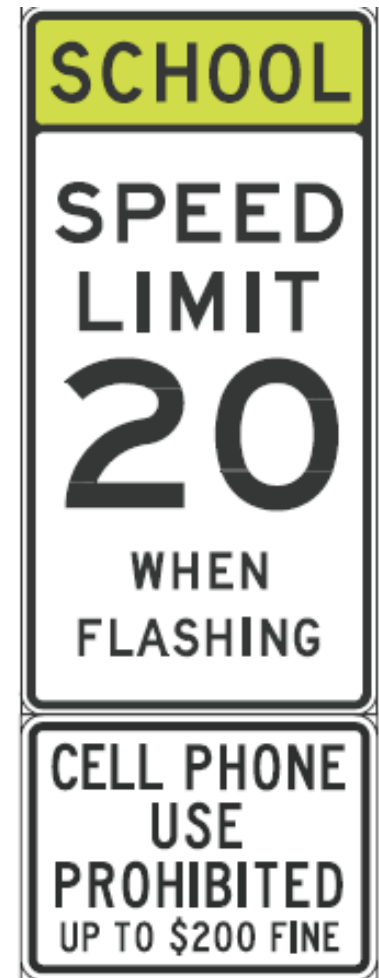
# School Safety

- Monthly meeting with FISD and Police
- Design School Zones
  - Flashers
  - Signage
  - Crosswalks
  - Ordinance
- Crossing Guard Locations
- Develop pick-up/drop-off plans
- Work with FISD to evaluate/design sites



## **NEW STATE LAW: Cell Phones Prohibited in School Zones**

- HB 55 went into effect statewide 9/1/09
- Prohibits cell phone use in school zones, unless
  - Using hands-free device
  - Vehicle is stopped in the zone
  - Making an emergency call
  - Driving an emergency vehicle in an official capacity
- 202 signs installed at the entrances to each of our school zones





# Development Review

- Thoroughfare Standards
- Off Site Improvements
- On Site Circulation
- Neighborhood Traffic Management
- Signing and Striping Plans
- Traffic Control Plans - Workzones

# Signs and Markings



# Signing & Striping

- Use retroreflective materials
- Use larger lettering
- Use of Internally Lighted Street Name Signs





# Speed Limits



- Speed Zone Study
- Evaluate 85<sup>th</sup> Percentile Speed
  - e.g. 85<sup>th</sup> percentile measured at 48mph
  - Means 15 percent traveling over 48mph
  - Limit recommended at 45mph or 50mph
  - Other factors considered – crash history, sight distance, parking, pedestrian, adjacent development, driveways
- Prima Facie Speeds – limit if signs not posted
  - 30mph in urban area
  - 65mph on highway
- Adopted by Ordinance

# Special Event Traffic Management

- IKEA Grand Opening
- Freedom Fest
- Pizza Hut Park
  - soccer games & concerts
- Dr Pepper Ballpark
- Dr Pepper Arena
- Parade
- Merry Main Street
- 5K Fun Runs
- MS 150













# Safety Town Signals

